



### Acoustic Insulation – Bilfinger Lambda Products

Lambda is the brand name used on all insulation products marketed by Bilfinger Oil & Gas. All products are designed and documented to be used in high risk environments within the oil & gas industry, nuclear power plants and process industry. The products have been developed and tested as a consequence of the rigorous requirements oil & gas industry, meeting NORSOK and ISO standards.

All Lambda products are highly recognized among professional engineers as "state of the art" insulation systems. Each product is tailor made and pre-fabricated to fit the exact valve, flange or equipment to be protected.

In addition to meeting functional requirements, all products are designed for quick and easy removal and re-installation with a minimum use of personnel and tooling. Bilfinger Lambda is continuously and proactively recognizing customer demands and developing solutions to meet these requirements.

### Lambda Acoustic Insulation

Lambda Acoustic Cassette is used as flexible, modular, acoustic protection. The solution is applicable in different production environments such as process industry, power plants, marine industry and oil & gas.

Our Acoustic Insulation system is modular and is designed to be fixed to a scaffolding frame resulting in a flexible and rapid system to deploy. The exterior is made from a strong, silicone based fabric, with a core of 50mm Mineral Wool acoustic insulation. All seams are sewn with Kevlar reinforced stainless steel thread, and sealed with silicone. The outer silicone coated fabric has no penetrations that could cause water ingress.

All Bilfinger Lambda products are designed for quick and easy removal and re-installation with the use of minimum personnel, personal protection equipment and tooling.

### Design and Test results

The Lambda Acoustic Cassette has been designed to reduce sound by 20 – 30dB. The Lambda sound reduction system is designed as overlapping cassettes, fixed on a scaffolding frame erected around the area to be protected. The Acoustic Cassettes can be fixed to the scaffolding frame horizontally or vertically. The back of the Cassettes have fixing bands with loops to allow fastening, and the sides have Velcro overlaps to ensure a tight fit with maximum sound dampening effect.

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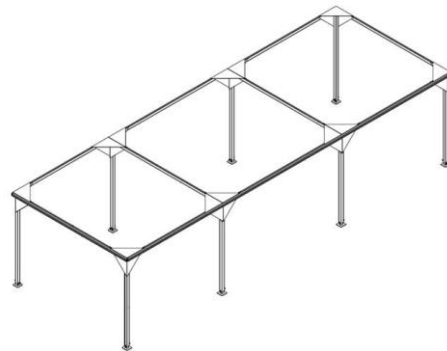
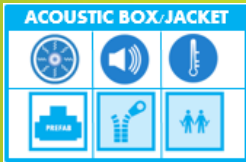
## LAMBDA A ACOUSTIC INSULATION

### Key Product Benefits

- Environmentally friendly
  - No halogens
  - Ceramic Fiber free
  - Re-use
- Maintenance free – Strong Silicone Coated Fabric exterior for Flexible Cassette, stitched with Kevlar reinforced stainless steel thread
- Easy to install, remove, inspect, and re-install
- Pre-fabricated solution → low installation cost
- Low Life Cycle Cost
- Weather proof materials testing
  - Norsok R-004
  - IACS UR S.14.2.3
- Acoustic sound reduction
  - 20dB+



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